

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

LISTING OF CLAIMS:

1. (Previously Presented) A guide wire comprising:
 - a first wire disposed on the distal side of said guide wire;
 - a second wire disposed on the proximal side from said first wire;
 - wherein said first wire and said second wire are joined to each other by welding;
 - a welded portion formed by the welding has a projection projecting in the outer peripheral direction;
 - the projection extending on both axial sides of the welded portion;
 - a cover layer is disposed over said projection;
 - said first wire and said second wire are not helical coils;
 - a spiral coil covering at least a distal end portion of said first wire; and
 - material forming at least one of the proximal end of the first wire and the distal end of the second wire constitutes at least a part of the projection.
2. (Canceled)
3. (Original) A guide wire according to claim 1, wherein said projection is visible under fluoroscopy.

4. (Canceled)

5. (Previously Presented) A guide wire according to claim 1, wherein the proximal end of said coil abuts on said projection.

6. (Original) A guide wire according to claim 1, wherein the proximal side and the distal side of said projection are formed into shapes asymmetric to each other with respect to the welded surface of said welded portion.

7. (Original) A guide wire according to claim 1, wherein the vicinity of said welded portion between said first wire and said second wire, has a thinned portion, and said projection is provided on said thinned portion.

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (New) A guide wire comprising:

a first wire disposed on the distal side of said guide wire;

a second wire disposed on the proximal side from said first wire;

the first wire is made of a pseudo-elastic alloy and the second wire is made of a different material than the first wire;

the second wire possessing an elasticity modulus greater than the elasticity modulus of the first wire;

wherein said first wire and said second wire are joined to each other by welding;

a welded portion formed by the welding has a projection projecting in the outer peripheral direction;

the projection extending on both axial sides of the welded portion;

a cover layer disposed over the projection;

the first wire and the second wire are not helical coils;
a welded surface of the welded portion at which the first and second wires are welded to each other being located at a maximum outer-diameter portion of the projection to disconcentrate stress to a smaller outer-diameter portion close to the projection;
a spiral coil covering at least a distal end portion of the first wire; and
material forming at least one of the proximal end of the first wire and the distal end of the second wire constitutes at least a part of the projection.

32. (New) A guide wire according to claim 31, wherein the spiral coil does not cover the projection.

33. (New) A guide wire according to claim 32, wherein the projection possesses an outer peripheral surface, the cover directly contacting the outer peripheral surface of the projection.

34. (New) A guide wire according to claim 31, wherein the spiral coil possesses a proximal-most end positioned on a distal side of the projection.

35. (New) A guide wire according to claim 31, wherein the projection is not surrounded by a spiral wire.

36. (New) A guide wire comprising:

a first wire disposed on the distal side of said guide wire;

a second wire disposed on the proximal side from said first wire;
wherein said first wire and said second wire are joined to each other by
welding;

a welded portion formed by the welding has a projection projecting in the
outer peripheral direction;

the projection extending on both axial sides of the welded portion;

the projection possessing an outer peripheral surface;

a cover layer in direct contact with the outer peripheral surface of the
projection to cover the projection;

the cover layer being a friction-reducing polymer material;

said first wire and said second wire are not helical coils;

a spiral coil covering at least a distal end portion of said first wire; and

material forming at least one of the proximal end of the first wire and the distal
end of the second wire constitutes at least a part of the projection.

37. (New) A guide wire according to claim 36, wherein the spiral coil
possesses a proximal-most end positioned on a distal side of the projection.

38. (New) A guide wire according to claim 36, wherein the spiral coil does
not cover the projection.

39. (New) A guide wire according to claim 36, wherein the projection is not
surrounded by a spiral wire.

40. (New) A guide wire according to claim 36, wherein the cover layer possesses an uncovered outer surface so that the cover layer is an outermost surface of at least a part of the guide wire.

41. (New) A guide wire comprising:
a first wire disposed on the distal side of said guide wire;
a second wire disposed on the proximal side from said first wire;
wherein said first wire and said second wire are joined to each other by welding;
a welded portion formed by the welding has a projection projecting in the outer peripheral direction;
the projection extending on both axial sides of the welded portion;
the projection possessing an outer peripheral surface;
a cover layer covering the projection;
said first wire and said second wire are not helical coils;
a spiral coil covering at least a distal end portion of said first wire;
the spiral coil does not cover the projection,
the projection is not covered by a spiral-shaped wire; and
material forming at least one of the proximal end of the first wire and the distal end of the second wire constitutes at least a part of the projection.

42. (New) A guide wire according to claim 41, the first wire is made of a pseudo-elastic alloy and the second wire is made of a different material than the first

wire so that the second wire possesses an elasticity modulus greater than the elasticity modulus of the first wire.

43. (New) A guide wire according to claim 41, wherein the cover layer possesses an uncovered outer surface so that the cover layer is an outermost surface of at least a part of the guide wire.